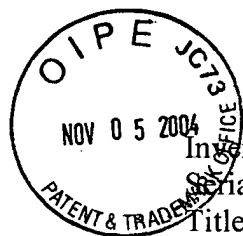


BEST AVAILABLE COPY

18w



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
Title : PHOTOINITIATOR SYSTEMS WITH  
ANTHRACENE-BASED ELECTRON DONORS  
FOR CURING CATIONICALLY  
POLYMERIZABLE RESINS  
Filing Date : November 21, 2003  
Group/Art Unit : 1711  
Confirmation No. : 3112  
Atty. Docket No. : 59092US002 (800528-0014)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The above-captioned application has been assigned to three different entities. Please find enclosed three sets of documents each containing a Power of Attorney by Assignee, a Statement Under 37 C.F.R. §3.73(b) and a copy of the recorded Assignment on behalf of the three Assignees. These three sets of documents are as follows:

1. Power of Attorney by Assignee of Entire Interest (Revocation of Prior Powers); Statement Under 37 C.F.R. §3.73(b) – Establishing Right of Assignee to Take Action and copy of recorded Assignment, documents signed by Assignee, Curators of the University of Missouri and dated October 19, 2004;
2. Power of Attorney by Assignee of Entire Interest (Revocation of Prior Powers); Statement Under 37 C.F.R. §3.73(b) – Establishing Right of Assignee to Take

**Certificate of Mailing Under 37 C.F.R. 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: November 2, 2004

Signature: Jessica V. Barnard

Printed Name: Jessica V. Barnard


The Commissioner is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

Action and copy of recorded Assignment, documents signed by Assignee, 3M Innovative Properties Company and dated October 20, 2004 ; and

3. Power of Attorney by Assignee of Entire Interest (Revocation of Prior Powers); Statement Under 37 C.F.R. §3.73(b) – Establishing Right of Assignee to Take Action and copy of recorded Assignment, documents signed by Assignee, 3M ESPE AG and dated October 21, 2004.

Acknowledgment of receipt is respectfully requested.

Respectfully submitted,

By:   
Susan Wharton Bell, Reg. No. 41,524  
STINSON MORRISON HECKER LLP  
1201 Walnut Street, Suite 2800  
Kansas City, MO 64106-2150  
Telephone: (816) 842-8600  
Facsimile: (816) 691-3495



Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCAION OF PRIOR POWERS)**

As assignee of record of the above-identified application:

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given are hereby revoked; and

**NEW POWER OF ATTORNEY**

Susan Wharton Bell, Reg. No. 41,524; Judith L. Carlson, Reg. No. 41,904; Lana M. Knedlik, Reg. No. 42,748; Andrea F. Sellers, Reg. No. 44,102; Nancy T. Morris, Reg. No. 42,017; James H. Marsh, Jr., Reg. No. 24,533; J. David Wharton, Reg. No. 25,717; Penny R. Slicer, Reg. No. 34,017; Kelly S.K. Elsea, Reg. No. 43,604; Christopher D. Brandt, Reg. No. 44,556 and Mark C. Young, Reg. No. 48,670, at the Customer Number listed below, namely Stinson Morrison Hecker LLP, Attn: Patent Group, 1201 Walnut, Suite 2800, Kansas City, Missouri 64106-2150, telephone (816) 842-8600, are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

**Direct all correspondence to:** ☒ **Customer Number 27910**

**Certificate of Mailing Under 37 C.F.R. 1.8**

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Date: November 2, 2004  
Signature: Jessica V. Barnard  
Printed Name: Jessica V. Barnard

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

**Direct all telephone calls to:** Susan Wharton Bell, Telephone (816) 842-8600  
Facsimile (816) 691-3495

**Assignment: U.S. Patent Application Serial No. 10/719,598 which assignment is:**

- ☒ Assignment from Craig A. Dykstra to Curators of the University of Missouri recorded in the Patent and Trademark Office on September 8, 2004 at Reel 015114, Frame 0847.
- ☐ Recorded herewith.
- ☐ Filed for recordation in the Patent and Trademark Office on [Date]. The Notice of Recordation has not yet been received.

**ASSIGNEE STATEMENT**

Attached to this power is a "STATEMENT UNDER 37 C.F.R. § 3.73(b)."

Signed this 19th day of October, 2004.

**Curators of the University of Missouri**

By: Thomas R. Sharpe  
Name: Thomas R. Sharpe, Ph.D., Executive Director  
Title: Office of Technology & Special Projects



Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
Title : PHOTOINITIATOR SYSTEMS WITH  
ANTHRACENE-BASED ELECTRON DONORS  
FOR CURING CATIONICALLY  
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Filing Date : November 21, 2003  
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Confirmation No. : 3112  
Atty. Docket No. : 59092US002 (800528-0014)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT UNDER 37 C.F.R. § 3.73(b) –  
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

Curators of the University of Missouri, a non-profit organization, duly organized under the laws of the State of Missouri, states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☐ Assignment from the inventor, a copy of which is attached.

AND/OR

- B. ☒ A chain of title from the inventors of the patent application/patent identified above to the current assignee as shown below.

**Certificate of Mailing Under 37 C.F.R. 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: November 2, 2004

Signature: Jessica V. Barnard

Printed Name: Jessica V. Barnard

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

From: Craig A. Dykstra  
To: Curators of the University of Missouri  
Recorded in the Patent and Trademark Office on September 8, 2004 at Reel  
015114, Frame 0847, a copy of which is attached.

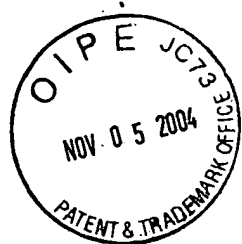
☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

Signed this 19th day of October, 2004.

**Curators of the University of Missouri**

By: Thomas R. Sharpe  
Name: Thomas R. Sharpe, Ph.D., Executive Director  
Title: Office of Technology & Special Projects



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



SEPTEMBER 13, 2004

PTAS

\*700113016A\*

STINSON MORRISON HECKER LLP  
SUSAN WHARTON BELL  
1201 WALNUT, SUITE 2400  
KANSAS CITY, MO 64106-2150

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/08/2004

REEL/FRAME: 015114/0847  
NUMBER OF PAGES: 5

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE EXECUTION DATE, PREVIOUSLY RECORDED ON REEL 015075 FRAME 0208.

## ASSIGNOR:

DYKSTRA, CRAIG A.

DOC DATE: 08/12/2004

## ASSIGNEE:

CURATORS OF THE UNIVERSITY OF  
MISSOURI  
615 LOCUST STREET  
COLUMBIA, MISSOURI 65211

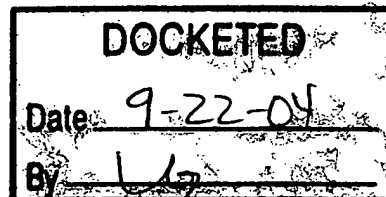
SERIAL NUMBER: 10719598

FILING DATE: 11/21/2003

PATENT NUMBER:

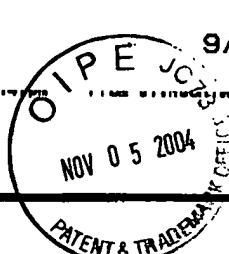
ISSUE DATE:

TITLE: PHOTOINITIATOR SYSTEMS WITH ANTHRACENE-BASED ELECTRON DONORS FOR  
CURING CATIONICALLY POLYMERIZABLE RESINS



015114/0847 PAGE 2

DOROTHY RILEY, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



700113016

Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 8/30/2006)

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Craig A. Dykstra

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☐ Assignment☐ Merger☐ Security Agreement☐ Change of Name☒ Other, Correction of Execution Date to August 12, 2004Execution Date: August 12, 2004

## 2. Name and address of receiving party(ies):

Name: Curators of the University of Missouri

Internal Address: \_\_\_\_\_

Street Address: 615 Locust StreetCity: Columbia State: MO Zip: 65211Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
10/719,598

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Susan Wharton BellInternal Address: Stinson Morrison Hecker LLPStreet Address: 1201 Walnut, Suite 2400City: Kansas City State: Missouri Zip: 64108-2150

## 6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41) \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

19-4409

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Susan Wharton Bell

Name of Person Signing

Susan W. Bell

Signature

9/8/04

Date

Total number of pages including cover sheet, attachments, and document: 7

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
Director of the United States Patent and Trademark Office  
P.O. Box 1460, Alexandria, VA 22313-1460

CH \$40.00 194109 10719598

**ASSIGNMENT AGREEMENT**

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Craig A. Dykstra, an individual of St. Paul, Minnesota (hereinafter "Assignor") hereby assigns, transfers and conveys to Curators of the University of Missouri, a non-profit organization created and existing under and by virtue of the laws of the State of Missouri, and having a principal place of business at 615 Locust Street, Columbia, Missouri 65211, its successors, legal representatives, and assigns (hereinafter "Assignee"), the Assignor's entire right, title and interest in and to the invention for a PHOTINITIATOR SYSTEMS WITH ANTHRACENE-BASED ELECTRON DONORS FOR CURING CATIONICALLY POLYMERIZABLE RESINS; in and to the application filed on the 21st day of November, 2003, and assigned Application No. 10/719,598 based thereon; in and to all patents to be issued pursuant to said application and any divisionals, continuations, continuations in part, extensions, renewals, and reissues thereof; and in and to all applications for patents or similar legal protection which may hereafter be filed for said invention in any country, all patents or similar legal protection which may be granted for said invention in any country and all extensions, renewals and reissues thereof or legal equivalent thereof.


Assignor hereby authorizes and requests the Director of Patents and Trademarks of the United States, and any official of any other country whose duty it is to issue patents or similar legal protection on said applications, to issue patents or similar legal protection for said invention to Assignee, the same to be held by Assignee for its own use and benefit, to the full end of the term for which said patents or similar legal protection are or may be granted, as fully

and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further agrees, upon the request of Assignee, to execute any and all applications for divisionals, continuations and/or continuations in part for said invention or improvements and any supplemental oath or declaration relating thereto, and any applications for the reissue or extension of any patent that may be granted upon said applications that Assignee may deem necessary or expedient. Assignor further agrees that in the event any said application, or patent issued thereon, becomes involved in an interference, upon request of Assignee, Assignor will cooperate to the best of his ability with Assignee in preparing the preliminary statement and giving and producing evidence in support thereof. Assignor hereby agrees to perform, upon such request, any and all affirmative acts to obtain said patents or similar legal protection, and vest all rights therein in Assignee as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made.

Assignor hereby covenants and warrants that as of the date hereof he is a true and lawful owner of the rights, title and interest in said invention, applications, and patents which may issue pursuant thereto, that he has the right and power to convey the same, that the same are free and clear of all liens, charges and encumbrances whatsoever, and that he has not executed and will not execute any agreement in conflict herewith.

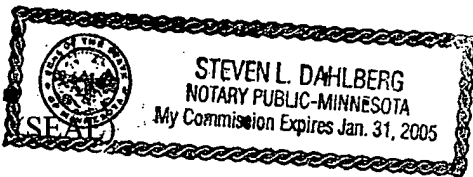
WITNESS my hand and seal this 12th day of August, 2004.

  
\_\_\_\_\_  
Craig A. Dykstra

**ACKNOWLEDGMENT**

STATE OF MN )  
COUNTY OF Anoka ) SS

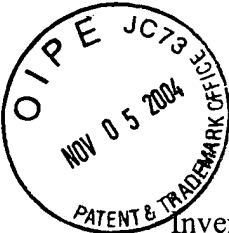
On this 12 day of Aug, 2004, before me, a Notary Public in and for the State and County aforesaid, personally appeared Craig A. Dykstra, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



St L Dahlberg  
Notary Public

My Commission Expires:

1-31-05



Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
Title : PHOTOINITIATOR SYSTEMS WITH  
ANTHRACENE-BASED ELECTRON DONORS  
FOR CURING CATIONICALLY  
POLYMERIZABLE RESINS  
Filing Date : November 21, 2003  
Group/Art Unit : 1711  
Confirmation No. : 3112  
Atty. Docket No. : 59092US002 (800528-0014)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the above-identified application:

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given are hereby revoked; and

**NEW POWER OF ATTORNEY**

Susan Wharton Bell, Reg. No. 41,524; Judith L. Carlson, Reg. No. 41,904; Lana M. Knedlik, Reg. No. 42,748; Andrea F. Sellers, Reg. No. 44,102; Nancy T. Morris, Reg. No. 42,017; James H. Marsh, Jr., Reg. No. 24,533; J. David Wharton, Reg. No. 25,717; Penny R. Slicer, Reg. No. 34,017; Kelly S.K. Elsea, Reg. No. 43,604; Christopher D. Brandt, Reg. No. 44,556 and Mark C. Young, Reg. No. 48,670, at the Customer Number listed below, namely Stinson Morrison Hecker LLP, Attn: Patent Group, 1201 Walnut, Suite 2800, Kansas City, Missouri 64106-2150, telephone (816) 842-8600, are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

**Direct all correspondence to: ☒ Customer Number 27910**

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Date: November 2, 2004  
Signature: Jessica V. Barnard  
Printed Name: Jessica V. Barnard

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

**Direct all telephone calls to:** Susan Wharton Bell, Telephone (816) 842-8600  
Facsimile (816) 691-3495

**Assignment: U.S. Patent Application Serial No. 10/719,598 which assignment is:**

- ☒ Assignment from Joel D. Oxman and Victoria A. Russell to 3M Innovative Properties Company recorded in the Patent and Trademark Office on October 1, 2004 at Reel 015207, Frame 0260.
- ☐ Recorded herewith.
- ☐ Filed for recordation in the Patent and Trademark Office on [Date]. The Notice of Recordation has not yet been received.

**ASSIGNEE STATEMENT**

Attached to this power is a "STATEMENT UNDER 37 C.F.R. § 3.73(b)."

Signed this 20<sup>th</sup> day of October, 2004.

**3M INNOVATIVE PROPERTIES COMPANY**

By: [Signature]  
Name: Gary L. Griswold  
Title: President



Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT UNDER 37 C.F.R. § 3.73(b) –  
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

3M Innovative Properties Company, a corporation, duly organized under the laws of the State of Minnesota, states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☐ Assignment from the inventor, a copy of which is attached.

AND/OR

- B. ☒ A chain of title from the inventors of the patent application/patent identified above to the current assignee as shown below.

**Certificate of Mailing Under 37 C.F.R. 1.8**

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Date: November 2, 2004

Signature: Jessica V. Barnard

Printed Name: Jessica V. Barnard

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

From: Joel D. Oxman and Victoria A. Russell  
To: 3M Innovative Properties Company  
Recorded in the Patent and Trademark Office on October 1, 2004 at Reel 015207,  
Frame 0260, a copy of which is attached.

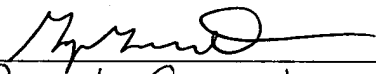


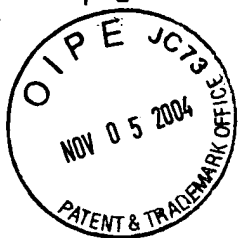
Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

Signed this 20<sup>th</sup> day of October, 2004.

**3M INNOVATIVE PROPERTIES COMPANY**

By:   
Name: Gary L. Griswold  
Title: President



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

OCTOBER 01, 2004

PTAS



\*500008370A\*

SUSAN WHARTON BELL  
1201 WALNUT  
SUITE 2800  
KANSAS CITY, MO 64106-2150

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/01/2004

REEL/FRAME: 015207/0260

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OXMAN, JOEL D.

DOC DATE: 08/18/2004

ASSIGNOR:

RUSSELL, VICTORIA A.

DOC DATE: 08/18/2004

ASSIGNEE:

3M INNOVATIVE PROPERTIES COMPANY

3M CENTER

P.O. BOX 33427

ST. PAUL, MINNESOTA 55133-3427

SERIAL NUMBER: 10719598

FILING DATE: 11/21/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: PHOTOINITIATOR SYSTEMS WITH ANTHRACENE-BASED ELECTRON DONORS FOR CURING CATIONICALLY POLYMERIZABLE RESINS

015207/0260 PAGE 2

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

10/01/2004  
500008370

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Joel D. Oxman</td><td>08/18/2004</td></tr><tr><td>Victoria A. Russell</td><td>08/18/2004</td></tr></tbody></table>		Name	Execution Date	Joel D. Oxman	08/18/2004	Victoria A. Russell	08/18/2004
Name	Execution Date						
Joel D. Oxman	08/18/2004						
Victoria A. Russell	08/18/2004						
RECEIVING PARTY DATA							
Name:	3M Innovative Properties Company						
Street Address:	3M Center						
Internal Address:	P.O. Box 33427						
City:	St. Paul						
State/Country:	MINNESOTA						
Postal Code:	55133-3427						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10719598</td></tr></tbody></table>		Property Type	Number	Application Number:	10719598		
Property Type	Number						
Application Number:	10719598						
CORRESPONDENCE DATA							
Fax Number:	(816)691-3495						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	816 842-8600						
Email:	lgurley@stinsonmoheck.com						
Correspondent Name:	Susan Wharton Bell						
Address Line 1:	1201 Walnut						
Address Line 2:	Suite 2800						
Address Line 4:	Kansas City, MISSOURI 64106-2150						
NAME OF SUBMITTER:	Susan Wharton Bell						
Total Attachments: 4 source=3MInnAssnA1#page1.tif source=3MInnAssnA2#page1.tif source=3MInnAssnA3#page1.tif							

CH \$40.00 10719598

source=3MInnAssnA4#page1.tif

**ASSIGNMENT AGREEMENT**

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Joel D. Oxman, an individual of Minneapolis, Minnesota and Victoria A. Russell, an individual of Brooklyn Park, Minnesota (hereinafter "Assignors") hereby assign, transfer and convey to 3M Innovative Properties Company, a corporation created and existing under and by virtue of the laws of the State of Minnesota, and having a principal place of business at 3M Center, P.O. Box 33427, St. Paul, Minnesota 55133-3427, its successors, legal representatives, and assigns (hereinafter "Assignee"), the Assignors' entire right, title and interest in and to the invention for a PHOTOINITIATOR SYSTEMS WITH ANTHRACENE-BASED ELECTRON DONORS FOR CURING CATIONICALLY POLYMERIZABLE RESINS; in and to the application filed on the 21st day of November, 2003, and assigned Application No. 10/719,598 based thereon; in and to all patents to be issued pursuant to said application and any divisionals, continuations, continuations in part, extensions, renewals, and reissues thereof, and in and to all applications for patents or similar legal protection which may hereafter be filed for said invention in any country, all patents or similar legal protection which may be granted for said invention in any country and all extensions, renewals and reissues thereof or legal equivalent thereof.

Assignors hereby authorize and request the Director of Patents and Trademarks of the United States, and any official of any other country whose duty it is to issue patents or similar legal protection on said applications, to issue patents or similar legal protection for said invention to Assignee, the same to be held by Assignee for its own use

and benefit, to the full end of the term for which said patents or similar legal protection are or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

Assignors hereby further agree, upon the request of Assignee, to execute any and all applications for divisionals, continuations and/or continuations-in-part for said invention or improvements and any supplemental oath or declaration relating thereto, and any applications for the reissue or extension of any patent that may be granted upon said applications that Assignee may deem necessary or expedient. Assignors further agree that in the event any said application, or patent issued thereon, becomes involved in an interference, upon request of Assignee, Assignors will cooperate to the best of its/their ability with Assignee in preparing the preliminary statement and giving and producing evidence in support thereof. Assignors hereby agree to perform, upon such request, any and all affirmative acts to obtain said patents or similar legal protection, and vest all rights therein in Assignee as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment had not been made.

Assignors hereby covenant and warrant that as of the date hereof they are true and lawful owners of the rights, title and interest in said invention, applications, and patents which may issue pursuant thereto, that they have the right and power to convey the same, that the same are free and clear of all liens, charges and encumbrances whatsoever, and that they have not executed and will not execute any agreement in conflict herewith.

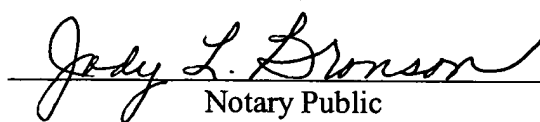
WITNESS my hand and seal this 18 day of August, 2004.

  
Joel D. Oxman

**ACKNOWLEDGMENT**

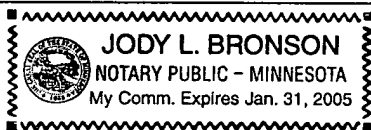
STATE OF MINNESOTA            )  
  ) SS  
COUNTY OF RAMSEY            )

On this 18<sup>th</sup> day of August, 2004, before me, a Notary Public in and for the State and County aforesaid, personally appeared Joel D. Oxman, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

  
Notary Public

(SEAL)

My Commission Expires:



WITNESS my hand and seal this 18<sup>th</sup> day of August, 2004.

Victoria A. Russell  
Victoria A. Russell

**ACKNOWLEDGMENT**

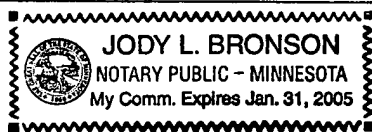
STATE OF MINNESOTA            )  
  24            ) SS  
COUNTY OF RAMSEY ~~YE~~            )

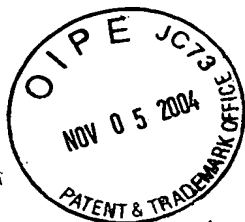
On this 18<sup>th</sup> day of August, 2004, before me, a Notary Public in and for the State and County aforesaid, personally appeared Victoria A. Russell, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Jody L. Bronson  
Notary Public

(SEAL)

My Commission Expires:





Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
Title : PHOTOINITIATOR SYSTEMS WITH  
ANTHRACENE-BASED ELECTRON DONORS  
FOR CURING CATIONICALLY  
POLYMERIZABLE RESINS  
Filing Date : November 21, 2003  
Group/Art Unit : 1711  
Confirmation No. : 3112  
Atty. Docket No. : 59092US002 (800528-0014)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the above-identified application:

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given are hereby revoked; and

**NEW POWER OF ATTORNEY**

Susan Wharton Bell, Reg. No. 41,524; Judith L. Carlson, Reg. No. 41,904; Lana M. Knedlik, Reg. No. 42,748; Andrea F. Sellers, Reg. No. 44,102; Nancy T. Morris, Reg. No. 42,017; James H. Marsh, Jr., Reg. No. 24,533; J. David Wharton, Reg. No. 25,717; Penny R. Slicer, Reg. No. 34,017; Kelly S.K. Elsea, Reg. No. 43,604; Christopher D. Brandt, Reg. No. 44,556 and Mark C. Young, Reg. No. 48,670, at the Customer Number listed below, namely Stinson Morrison Hecker LLP, Attn: Patent Group, 1201 Walnut, Suite 2800, Kansas City, Missouri 64106-2150, telephone (816) 842-8600, are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Direct all correspondence to: ☒ Customer Number 27910

**Certificate of Mailing Under 37 C.F.R. 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: November 2, 2004  
Signature: Jessica V. Barnard  
Printed Name: Jessica V. Barnard

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**Direct all telephone calls to:** Susan Wharton Bell, Telephone (816) 842-8600  
Facsimile (816) 691-3495

**Assignment: U.S. Patent Application Serial No. 10/719,598 which assignment is:**

- ☒ Assignment from Karsten Dede, Christoph Thalacker and Wolfgang Weinmann to 3M ESPE AG recorded in the Patent and Trademark Office on October 1, 2004 at Reel 015207, Frame 0266.
- ☐ Recorded herewith.
- ☐ Filed for recordation in the Patent and Trademark Office on [Date]. The Notice of Recordation has not yet been received.

**ASSIGNEE STATEMENT**

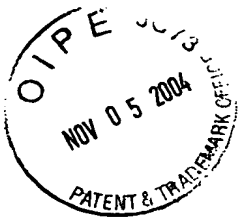
Attached to this power is a "STATEMENT UNDER 37 C.F.R. § 3.73(b)."

Signed this 21 day of October, 2004.

**3M ESPE AG**, a wholly-owned subsidiary of 3M  
Company

**3M ESPE AG**  
ESPE Platz  
D-82229 Seefeld

By: i.v. R. Brem  
Name: Dr. Roland Brem  
Title: IP Counsel



Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors : Joel D. Oxman et al.  
Serial No. : 10/719,598  
Title : PHOTOINITIATOR SYSTEMS WITH  
ANTHRACENE-BASED ELECTRON DONORS  
FOR CURING CATIONICALLY  
POLYMERIZABLE RESINS  
Filing Date : November 21, 2003  
Group/Art Unit : 1711  
Confirmation No. : 3112  
Atty. Docket No. : 59092US002 (800528-0014)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT UNDER 37 C.F.R. § 3.73(b) –  
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

3M ESPE AG, a wholly-owned subsidiary of 3M Company, a corporation duly organized under the laws of the State of Delaware, states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☐ Assignment from the inventor, a copy of which is attached.

AND/OR

- B. ☒ A chain of title from the inventors of the patent application/patent identified above to the current assignee as shown below.

**Certificate of Mailing Under 37 C.F.R. 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: November 2, 2004

Signature: Jessica V. Barnard

Printed Name: Jessica V. Barnard

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

Serial No.: 10/719,598  
Attorney Docket No.: 800528-0014

From: Karsten Dede, Christoph Thalacker and Wolfgang Weinmann  
To: 3M ESPE AG  
Recorded in the Patent and Trademark Office on October 1, 2004 at Reel 015207,  
Frame 0266, a copy of which is attached.



Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

Signed this 21 day of October, 2004.

3M ESPE AG, a wholly-owned subsidiary of 3M  
Company

**3M ESPE AG**  
ESPE Platz  
D-82229 Seefeld

By: i.v.   
Name: Dr. Roland Brem  
Title: IP Counsel



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



OCTOBER 01, 2004

PTAS

\*500008372A\*

SUSAN WHARTON BELL  
1201 WALNUT  
SUITE 2800  
KANSAS CITY, MO 64106-2150

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/01/2004

REEL/FRAME: 015207/0266  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DEDE, KARSTEN

DOC DATE: 09/20/2004

ASSIGNOR:

THALACKER, CHRISTOPH

DOC DATE: 09/20/2004

ASSIGNOR:

WEINMANN, WOLFGANG

DOC DATE: 09/20/2004

ASSIGNEE:

3M ESPE AG  
ESPE PLATZ  
SEEFELD, FED REP GERMANY

015207/0266 PAGE 2

SERIAL NUMBER: 10719598

FILING DATE: 11/21/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: PHOTOINITIATOR SYSTEMS WITH ANTHRACENE-BASED ELECTRON DONORS FOR  
CURING CATIONICALLY POLYMERIZABLE RESINS

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

10/01/2004  
500008372

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Karsten Dede</td><td>09/20/2004</td></tr><tr><td>Christoph Thalacker</td><td>09/20/2004</td></tr><tr><td>Wolfgang Weinmann</td><td>09/20/2004</td></tr></tbody></table>		Name	Execution Date	Karsten Dede	09/20/2004	Christoph Thalacker	09/20/2004	Wolfgang Weinmann	09/20/2004
Name	Execution Date								
Karsten Dede	09/20/2004								
Christoph Thalacker	09/20/2004								
Wolfgang Weinmann	09/20/2004								
RECEIVING PARTY DATA									
Name:	3M ESPE AG								
Street Address:	ESPE Platz								
City:	Seefeld								
State/Country:	GERMANY								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10719598</td></tr></tbody></table>		Property Type	Number	Application Number:	10719598				
Property Type	Number								
Application Number:	10719598								
CORRESPONDENCE DATA									
Fax Number:	(816)691-3495								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	816 842-8600								
Email:	lgurley@stinsonmoheck.com								
Correspondent Name:	Susan Wharton Bell								
Address Line 1:	1201 Walnut								
Address Line 2:	Suite 2800								
Address Line 4:	Kansas City, MISSOURI 64106-2150								
NAME OF SUBMITTER:	Susan Wharton Bell								
Total Attachments: 3 source=3MESPEAssn1#page1.tif source=3MESPEAssn2#page1.tif source=3MESPEAssn3#page1.tif									

CH \$40.00 10719598

**ASSIGNMENT AGREEMENT**

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Karsten Dede, an individual having an address of 86899 Landsberg, Germany, and Christoph Thalacker, an individual having an address of 82362 Weilheim, Germany, and Wolfgang Weinmann, an individual having an address of 82362 Weilheim, Germany (hereinafter "Assignors") hereby assign, transfer and convey to 3M ESPE AG, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal place of business at Seefeld, Germany, its successors, legal representatives, and assigns (hereinafter "Assignee"), the Assignors' entire right, title and interest in and to the invention for a PHOTINITIATOR SYSTEMS WITH ANTHRACENE-BASED ELECTRON DONORS FOR CURING CATIONICALLY POLYMERIZABLE RESINS; in and to the application filed on the 21st day of November, 2003, and assigned Application No. 10/719,598 based thereon; in and to all patents to be issued pursuant to said application and any divisionals, continuations, continuations in part, extensions, renewals, and reissues thereof, and in and to all applications for patents or similar legal protection which may hereafter be filed for said invention in any country, all patents or similar legal protection which may be granted for said invention in any country and all extensions, renewals and reissues thereof or legal equivalent thereof.

Assignors hereby authorize and request the Director of Patents and Trademarks of the United States, and any official of any other country whose duty it is to issue patents or similar legal protection on said applications, to issue patents or similar legal protection for said invention to Assignee, the same to be held by Assignee for its own use and

benefit, to the full end of the term for which said patents or similar legal protection are or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

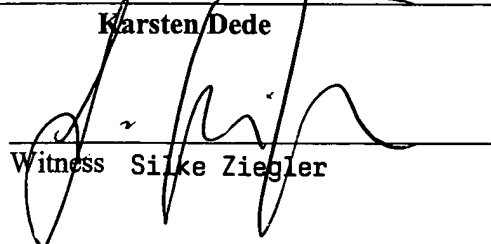
Assignors hereby further agree, upon the request of Assignee, to execute any and all applications for divisionals, continuations and/or continuations-in-part for said invention or improvements and any supplemental oath or declaration relating thereto, and any applications for the reissue or extension of any patent that may be granted upon said applications that Assignee may deem necessary or expedient. Assignors further agree that in the event any said application, or patent issued thereon, becomes involved in an interference, upon request of Assignee, Assignors will cooperate to the best of its/their ability with Assignee in preparing the preliminary statement and giving and producing evidence in support thereof. Assignors hereby agree to perform, upon such request, any and all affirmative acts to obtain said patents or similar legal protection, and vest all rights therein in Assignee as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment had not been made.

Assignors hereby covenant and warrant that as of the date hereof they are true and lawful owners of the rights, title and interest in said invention, applications, and patents which may issue pursuant thereto, that they have the right and power to convey the same, that the same are free and clear of all liens, charges and encumbrances whatsoever, and that they have not executed and will not execute any agreement in conflict herewith.

WITNESS my hand and seal this 20 day of September, 2004.

  
\_\_\_\_\_  
Karsten Dede

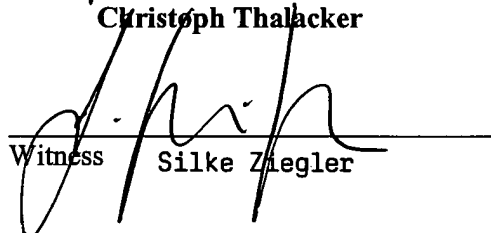
Andrea Stöckl  
Witness Andrea Stoeckl

  
\_\_\_\_\_  
Witness Silke Ziegler

WITNESS my hand and seal this 20 day of September, 2004.

  
\_\_\_\_\_  
Christoph Thalacker

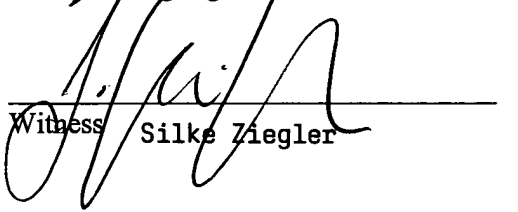
Andrea Stöckl  
Witness Andrea Stoeckl

  
\_\_\_\_\_  
Witness Silke Ziegler

WITNESS my hand and seal this 20 day of September, 2004.

  
\_\_\_\_\_  
Wolfgang Weimann

Andrea Stöckl  
Witness Andrea Stoeckl

  
\_\_\_\_\_  
Witness Silke Ziegler

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